

# COOLING STRUCTURE FOR PROJECTION APPARATUS

## Abstract

A partition installed in a housing of a projection apparatus to form a double-layer structure of a first zone and a second zone is used for a component of a cooling structure for the projection apparatus. Moreover, a first air inlet is disposed at the lower part of the first zone and a second air inlet is disposed between the first and the second zones. An air outlet with a duct and a plurality of sound sources and heat elements are disposed in the second zone. Outside air is drawn in from the first air inlet through a fan, then turned to enter the second zone through the second air inlet to cool heat elements and finally exhausted out of the system from the air outlet through the duct. Besides, the installments of the partition and the duct allow the distance of the sound source broadcasting to be lengthened and the diffusion light to be blocked so that both the noise and the leaking of the diffusion light can be reduced effectively.